Hadoop Essentials

A Quantitative Approach

Henry H. Liu



Hadoop Essentials A Quantitative Approach

Rajiv Tiwari

Hadoop Essentials A Quantitative Approach:

Hadoop Essentials Henry H. Liu, 2012-10-31 This textbook adopts a unique approach to helping developers and CS students learn Hadoop MapReduce programming fast Rather than filled with disjointed piecemeal code snippets to show Hadoop MapReduce programming features one at a time it is designed to place your total Hadoop MapReduce programming learning process in a common application context of mining customer spending patterns ensconced in large volumes of credit card transaction record data Precise end to end procedures are given to help you set up your Hadoop MapReduce development environment guickly on Eclipse with Maven on Mac OS X Step by step procedures are also given on how to set up a four node Linux cluster at minimum so that you can run your MapReduce programs not only in local mode on your Mac OS X machine but also in fully distributed mode on a real cluster In fact all MapReduce programs presented in the book have been tested and verified in local mode and on such a Linux cluster This textbook mainly focuses on teaching Hadoop MapReduce programming in a scientific objective quantitative approach Rather than heavily relying on subjective verbose and sometimes even pompous textual descriptions with sparse code snippets this textbook uses Hadoop Java APIs Hadoop configuration parameters complete MapReduce programs and their execution logs and outputs to demonstrate how Hadoop MapReduce framework works and how to write MapReduce programs Specifically this text covers the following subjects Introduction to Hadoop Setting up a Linux Hadoop Cluster The Hadoop Distributed FileSystem MapReduce Job Orchestration and Workflows Basic MapReduce Programming Advanced MapReduce Programming Hadoop Streaming Hadoop Administration No matter what role you play on your team this text can help you gain truly applicable Hadoop skills in a most effective and efficient manner The book can also be used as a supplementary textbook for a distributed computing or Hadoop course offered to upper division college CS students **Hadoop Essentials** Henry H. Liu, 2012-10-08 This textbook adopts a unique approach to helping developers and CS students learn Hadoop MapReduce programming fast Rather than filled with disjointed piecemeal code snippets to show Hadoop MapReduce programming features one at a time it is designed to place your total Hadoop MapReduce programming learning process in a common application context of mining customer spending patterns ensconced in large volumes of credit card transaction record data Precise end to end procedures are given to help you set up your Hadoop MapReduce development environment quickly on Eclipse with Maven on Mac OS X Step by step procedures are also given on how to set up a four node Linux cluster at minimum so that you can run your MapReduce programs not only in local mode on your Mac OS X machine but also in fully distributed mode on a real cluster In fact all MapReduce programs presented in the book have been tested and verified in local mode and on such a Linux cluster This textbook mainly focuses on teaching Hadoop MapReduce programming in a scientific objective quantitative approach Rather than heavily relying on subjective verbose and sometimes even pompous textual descriptions with sparse code snippets this textbook uses Hadoop Java APIs Hadoop configuration parameters complete MapReduce programs and their execution logs

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framework works and how to write MapReduce programs Specifically this text covers the following subjects Introduction to Hadoop Setting up a Linux Hadoop Cluster The Hadoop Distributed FileSystem MapReduce Job Orchestration and Workflows Basic MapReduce Programming Advanced MapReduce Programming Hadoop Streaming Hadoop Administration No matter what role you play on your team this text can help you gain truly applicable Hadoop skills in a most effective and efficient manner The book can also be used as a supplementary textbook for a distributed computing or Hadoop course offered to SOCIAL MEDIA AND WEB ANALYTICS Dr. Saroj Kumar ,Tripti Singh upper division CS students Chowdhury, 2025-06-21 MBA FOURTH SEMESTER According to the New Syllabus of Dr A P J Abdul Kalam Technical Improving E-Commerce Web Applications Through Business Intelligence Techniques University Lucknow Sreedhar, G., 2018-02-02 As the Internet becomes increasingly interconnected with modern society the transition to online business has developed into a prevalent form of commerce While there exist various advantages and disadvantages to online business it plays a major role in contemporary business methods Improving E Commerce Web Applications Through Business Intelligence Techniques provides emerging research on the core areas of e commerce web applications While highlighting the use of data mining search engine optimization and online marketing to advance online business readers will learn how the role of online commerce is becoming more prevalent in modern business This book is an important resource for vendors website developers online customers and scholars seeking current research on the development and use of e commerce

Hadoop Essentials Shiva Achari,2015-04-29 If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework then this book is ideal for you This book is also meant for Hadoop professionals who want to find solutions to the different challenges they come across in their Hadoop projects
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Mapreduce Patterns - Hadoop Essentials How-To Srinath Perera, 2013-05-22 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This is a Packt Instant How to guide which provides concise and clear recipes for getting started with Hadoop This book is for big data enthusiasts and would be Hadoop programmers It is also meant for Java programmers who either have not worked with Hadoop at all or who know Hadoop and MapReduce but are not sure how to deepen their understanding Hadoop 2 Quick-Start Guide Douglas Eadline, 2015-10-28 Get Started Fast with Apache Hadoop 2 YARN and Today s Hadoop Ecosystem With Hadoop 2 x and YARN Hadoop moves beyond MapReduce to become practical for virtually any type of data processing Hadoop 2 x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage Hadoop 2 x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models Hadoop 2 Quick Start Guide is the first easy accessible guide to Apache Hadoop 2 x YARN and the modern Hadoop ecosystem Building on his unsurpassed experience teaching Hadoop and Big Data author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers and to navigate the powerful technologies that complement it Eadline concisely introduces and explains every key Hadoop 2 concept tool and service illustrating each with a simple beginning to end example and identifying trustworthy up to date resources for learning more This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details Douglas Eadline will bring you up to speed quickly whether you re a user admin devops specialist programmer architect analyst or data scientist Coverage Includes Understanding what Hadoop 2 and YARN do and how they improve on Hadoop 1 with MapReduce Understanding Hadoop based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines virtualized sandboxes or clusters Exploring the Hadoop Distributed File System HDFS Understanding the essentials of MapReduce and YARN application programming Simplifying programming and data movement with Apache Pig Hive Sgoop Flume Oozie and HBase Observing application progress controlling jobs and managing workflows Managing Hadoop efficiently with Apache Ambari including recipes for HDFS to NFSv3 gateway HDFS snapshots and YARN configuration Learning basic Hadoop 2 troubleshooting and installing Apache Hue and Apache Spark **HDInsight Essentials - Second Edition** Rajesh Nadipalli, 2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in everything from development administration and reporting **Hadoop in 24 Hours, Sams Teach Yourself** Jeffrey Aven, 2017-04-07 Apache Hadoop is the technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less you can learn all the skills and techniques you ll need to deploy each key component of a Hadoop platform in your local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each

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deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language *Hdinsight Essentials - Second Edition* Rajesh Nadipalli, 2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in everything from development administration and reporting Sams Teach Yourself Hadoop in 24 Hours Jeffrey Aven, 2017 Apache Hadoop is the Guide Doug Eadline, 2016 technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less students can learn all the skills and techniques they ll need to deploy each key component of a Hadoop platform in a local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each short easy lesson builds on all that s come before helping students master all of Hadoop s essentials and extend it to meet real world challenges Apache Hadoop in 24 Hours Sams Teach Yourself covers all this and much more Understanding Hadoop and the Hadoop Distributed File System HDFS Importing data into Hadoop and process it there Mastering basic MapReduce Java programming and using advanced MapReduce API concepts Making the most of Apache Pig and Apache Hive Implementing and administering YARN Taking advantage of the full Hadoop ecosystem Managing Hadoop clusters with Apache Ambari Working with the Hadoop User Environment HUE Scaling securing and troubleshooting Hadoop environments Integrating Hadoop into the enterprise Deploying Hadoop in the cloud Getting started with Apache Spark Step by step instructions walk students through common questions issues and tasks Q and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help avoid pitfalls By the time they re finished they ll be comfortable using Apache Hadoop to solve a wide spectrum of Big Data problems Hadoop for

Finance Essentials Rajiv Tiwari,2015-05-07 Network Data Analytics K. G. Srinivasa,Siddesh G. M.,Srinidhi H.,2018-04-26 In order to carry out data analytics we need powerful and flexible computing software However the software available for data analytics is often proprietary and can be expensive This book reviews Apache tools which are open source and easy to use After providing an overview of the background of data analytics covering the different types of analysis and the basics of using Hadoop as a tool it focuses on different Hadoop ecosystem tools like Apache Flume Apache Spark Apache Storm Apache Hive R and Python which can be used for different types of analysis It then examines the different machine learning techniques that are useful for data analytics and how to visualize data with different graphs and charts Presenting data analytics from a practice oriented viewpoint the book discusses useful tools and approaches for data analytics supported by concrete code examples The book is a valuable reference resource for graduate students and professionals in related fields and is also of interest to general readers with an understanding of data analytics

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